

Claim 1→24 have been deleted.

Patent
Attorney Docket No.: 41836.00055USD1

1 25. A method of making a reinforced shrink wrap comprising:
2 providing a sheet of thermoplastic and a shrink film;
3 placing a reinforcing grid on the sheet of thermoplastic;
4 forming a tie layer of elastomeric material between the sheet of thermoplastic
5 and the shrink film; and
6 laminating the thermoplastic sheet, the shrink film, and the tie layer with the
7 reinforcing grid to form a reinforced shrink wrap, whereby the reinforcing grid is
8 held by the elastomeric tie layer in between the thermoplastic sheet and the shrink
9 film, and the reinforcing grid being disposed via the elastomeric tie layer.

1 26. A method of making the reinforced shrink wrap of claim 25, further comprising heating the
2 elastomeric material and applying it by extrusion coating to the thermoplastic sheet.

1 32. The method of claim 25 wherein the shrink film is a highly irradiated polyolefin.
2 33. The method of claim 32 wherein the highly irradiated polyolefin is polyethylene
3 34. The method of claim 25 wherein the reinforcing grid is a non-woven scrim.
4 35. The method of claim 34 wherein the reinforcing grid material is selected from the group
5 consisting of nylon filament and polyester filament from about 200 to about 800 denier.
1 36. The method of claim 25 wherein the elastomeric tie layer has a lower modulus than the
2 thermoplastic sheet or the shrink film.
1 37. The method of claim 25 wherein the thermoplastic sheet includes multiple plies of
2 thermoplastic.
1 38. The method of claim 25 wherein the tie layer is from about 0.75 to about 1.5 mils in
2 thickness.

1 39. The method of claim 25 wherein the thermoplastic sheet and shrink film are from about
2 0.75 to about 6 mils thick.

1 40. The method of claim 25 wherein the thermoplastic sheet or shrink film includes an
2 additive selected from the group consisting of ultraviolet stabilizer, flame retardant, static
3 inhibitor, color additive, antioxidant, corrosion inhibitor, biocide and mixtures thereof.

1 41. The method of claim 25 wherein the tie layer includes an additive selected from the
2 group consisting of ultraviolet stabilizer, flame retardant, static inhibitor, color additive,
3 antioxidant, corrosion inhibitor, biocide and mixtures thereof.

1 42. The method of claim 37 wherein at least one ply of thermoplastic contains an additive
2 selected from the group consisting of ultraviolet stabilizer, flame retardant, static inhibitor,
3 color additive, antioxidant, corrosion inhibitor, biocide and mixtures thereof.

1 43. The method of claim 33 wherein the polyethylene is selected from the group consisting
2 of linear low density polyethylene, low density polyethylene and mixtures thereof.

1 44. A method of making a multi-layered reinforced shrink wrap comprising:
2 providing at least three layers of thermoplastic;
3 at least one of the thermoplastic layers is a shrink film of highly irradiated
4 polyolefin; and
5 laminating at least two tie layers of elastomeric material alternatively
6 disposed between the thermoplastic layers, each holding a reinforcing grid but
7 allowing slippage of the reinforcing grid in the tie layer upon tensile loading.

1 45. The method of claim 44 wherein the shrink film of highly irradiated polyolefin is
2 polyethylene.

1 46. The method of claim 44 wherein the reinforcing grid is a non-woven scrim.

1 47. The method of claim 44 wherein the reinforcing grid is selected from the group
2 consisting of nylon filament and polyester filament from about 200 to about 800 denier.

1 48. The method of claim 44 wherein the elastomeric tie layers have a lower modulus than at
2 least one of the thermoplastic layers.

1 49. The method of claim 44 wherein at least one of said thermoplastic layers includes
2 multiple thermoplastic plies.

1 50. The method of claim 44 wherein each of the tie layers is from about 0.75 to about 1.5
2 mils in thickness.

1 51. The method of claim 44 wherein the thermoplastic layers are from about 0.75 to about 6
2 mils thick.

1 52. The method of claim 44 wherein at least one of the thermoplastic layers contains an
2 additive selected from the group consisting of ultraviolet stabilizer, flame retardant, static
3 inhibitor, color additive, antioxidant, corrosion inhibitor, biocide and mixtures thereof.